

• APR-03-02 17:33

FROM-GEN-PROBE EXECUTIVE OFFICE

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T-684 P. 99

F-485

EXHIBIT A

1. Mtx 17AmtoA-246-45 With 5' cap 17AmtoA-246

Project No. mtbTITLE in mtb A190 regionBook N. 2211

45

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Materials —

T7 AmtoA-246, 2138-93, 15.84 OD/me, 0.52 uel / 15 pmol.
 T7 AmtoA-246-Cordycapin 2228-18, 12.6 OD/me, 0.65 uel / 15 pmol.
 T7 AmtoA-246-RP, 2138-58, 4.56 OD/me, 1.8 uel / 15 pmol.
 MgoA+146, 2158-55, 6.69 OD/me, 0.1 uel / 2 pmol.
 10x GP / mth, 2134-100, 1M TMAc, 2211-99,
 10x rNTP / mth, 2211-99, T7 10704, 2000 / rxn.
 10mM dNTP / mth 2163-98, RT / 74312, 3000 / rxn.
 2M KCl, 2087-99, Nalc. SDB, ~~2211-100~~ 2211-100.

| (I) Design | Control | MgoA+146 | 5'g/B | of g |
|------------|--|----------|-------|------------------------------|
| a. | 0.1 pm unbleached T7A-246 15 pmol Cordycapin | 2 pmol | ①-⑤ | ①⑥-①⑦ |
| b. | 5 pmol RP-linked T7A-246 10 pmol Cordycapin | | ⑥-⑩ | ⑩-①⑦ / 0.01 pm unbleached T7 |
| c. | 5 pmol RP-linked T7A-246 10 pmol Cordycapin | ↓ | ⑪-⑮ | ⑮-①⑦ / 0.01 pm unbleached T7 |

| (II) Mix | IX | IXx |
|------------------------------------|----------|------|
| MgoA+146 | 0.1 uel | 6.9 |
| 10x GP | 10 | 190 |
| 10x rNTP | 10 | 190 |
| 10mM dNTP | 10 | 190 |
| 2M KCl | 1.75 | 33.3 |
| Glycerol | 10 | 190 |
| DMSO | 10 | 190 |
| 1M TMAc | 1 | 19 |
| 5% phenol Red | 5 | 9.5 |
| MnCl ₂ H ₂ O | 15.35 | 29.2 |
| | 68.7 uel | |

(III) mtb rRNA 2) 5' sample → 958x1

(A) 2 uel + 998 H₂O

(B) 2 uel + 264 uel 2% BSA → 5' / 100

(IV) Enzyme mix (x 20)

RT 25x20=5 uel } 11.3 uel
 T7 1x20=20 } per
 Nalc 10x20=200 } addition

| | | |
|----------------------------------|---------------------------|----------------------------------|
| a(x8) 550 uel mix | b(x55) 378 uel mix | 378 uel mix |
| (x50) 1.4 uel 0.1 pm T7-246 | 1.3 uel 0.1 pm RP-246 | 3.3 uel RP-T7A-246 |
| 5.2 uel 15 pm Cordycapin T7A-246 | 3.1 uel 13 pm T7A-246 | 2.4 uel 10 pm Cordycapin T7A-246 |
| 73.4 uel H ₂ O | 50.6 uel H ₂ O | 49.3 uel H ₂ O |
| 28.7 uel x 7 | 78.7 uel x 5 | 78.7 uel x 5 |

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Witnessed & Understood by me,

Rosa Jankard

Dat

Invented by

Date

Recorded by

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